

What is claimed is:

1. A portable telephone having a first case including a key operation unit, and a second case connected to said first case, wherein

5 when a preset setting time has elapsed since a detection of a state that said first and second cases overlap each other while a terminal of the portable telephone is in a wait state for incoming and outgoing calls, key entries except at least an entry of personal identification codes for unlocking are  
10 invalidated in said key operation unit.

2. The portable telephone according to claim 1, wherein said second case is a foldable type terminal connected to said first case via a joining part in a freely openable and closable manner.

3. The portable telephone according to claim 1, wherein said  
15 second case is a rotary type terminal connected to said first case via a joining part so as to be rotated along a key operation face of said key operation unit.

4. The portable telephone according to claim 1, wherein said second case is a slide storage type terminal that freely receives  
20 said first case by sliding the first case in a longitudinal direction.

5. A portable telephone having a first case including a key operation unit, and a second case connected to said first case, comprising:

determination means for determining whether a terminal of  
5 the portable telephone is in a wait state for incoming and outgoing calls;

detection means for detecting a state that said first case and said second case overlap each other and a release of the state that said first case and said second case overlap each other;

10 time counting means for counting a preset setting time upon a detection by said detection means of the state that said first and second cases overlap each other; and

means for, when said determination means determines to be in the wait state and then said time counting means detects that  
15 the setting time has elapsed, invalidating key entries except at least an entry of personal identification codes in said key operation unit.

6. The portable telephone according to claim 5, wherein, in a foldable type terminal in which said second case is connected  
20 to said first case via a joining part in a freely openable and closable manner, said detection means detects an opened state of the first case and the second case as the release of the state that said first case and said second case overlap each other.

7. The portable telephone according to claim 5, wherein, in  
25 a rotary type terminal in which said second case is connected to said first case via the joining part so as to be rotated along

a key operation face of said key operation unit, said detection means detects a state that said second case is rotated by a predetermined amount around a joining part relative to said first case, as the release of the state that said first and second cases  
5 overlap each other.

8. The portable telephone according to claim 5, wherein, in a slide storage type terminal in which said second case freely receives said first case by sliding said first case in a longitudinal direction, said detection means detects a state that  
10 said second case is slid by a predetermined amount relative to said first case as the release of the state that said first and second cases overlap each other.

9. A foldable type portable telephone having a first case including a key operation unit, and a second case connected to  
15 said first case in a freely openable and closable manner, wherein when a preset setting time has elapsed since a detection of a closed state of said first and second cases while a terminal of the foldable type portable telephone is in a wait state for incoming and outgoing calls, key entries except at least an entry  
20 of personal identification codes for unlocking are invalidated in said key operation unit.

10. A foldable type portable telephone having a first case including a key operation unit, and a second case connected to said first case in a freely openable and closable manner,  
25 comprising:

determination means for determining whether a terminal of the foldable type portable telephone is in a wait state for incoming and outgoing calls;

detection means for detecting an opened state and a closed  
5 state of said first and second cases;

time counting means for counting a preset setting time upon a detection by said detection means of the closed state of the first and second cases; and

means for, when said determination means determines to be  
10 in the wait state and then said time counting means detects that the setting time has elapsed, invalidating key entries except at least an entry of personal identification codes in said key operation unit.

11. The foldable type portable telephone according to claim 10,  
15 wherein said means for invalidating key entries invalidates the key entries when setting information is preset to automatically inhibit the key entries in said key operation unit.

12. The foldable type portable telephone according to claim 10,  
wherein, when a previously set predetermined operation is  
20 performed before the setting time elapses, said time counting means once clears the count of time and then restarts counting the setting time.

13. The foldable type portable telephone according to claim 10,  
further comprising:

means for setting the setting time in accordance with instruction information from outside.

14. A portable telephone having a first case including a key operation unit, and a second case connected to said first case,  
5 wherein

when a preset setting time has elapsed since a detection of a specified state of said first and second cases while a terminal of the portable telephone is in a wait state for incoming and outgoing calls, key entries except at least an entry of personal  
10 identification codes for unlocking are invalidated in said key operation unit.

15. The portable telephone according to claim 14, wherein said second case is a foldable type terminal connected to said first case via a joining part in a freely openable and closable manner.

15 16. The portable telephone according to claim 14, wherein said second case is a rotary type terminal connected to said first case via a joining part so as to be rotated along a key operation face of said key operation unit.

17. The portable telephone according to claim 14, wherein said  
20 second case is a slide storage type terminal that freely receives said first case by sliding the first case in a longitudinal direction.

18. A portable telephone having a first case including a key operation unit, and a second case connected to said first case, comprising:

determination means for determining whether a terminal of the portable telephone is in a wait state for incoming and outgoing calls;

detection means for detecting a specified state of said first and second cases;

time counting means for counting a preset setting time upon a detection by said detection means of the specified state of the first and second cases; and

means for, when said determination means determines to be in the wait state and then the time counting means detects that the setting time has elapsed, invalidating key entries except at least an entry of personal identification codes in said key operation unit.

19. The portable telephone according to claim 18, wherein said detection means detects either one of a state that said first and second cases overlap each other and a release of the state that said first and second cases overlap each other, as the specified state.

20. The portable telephone according to claim 19, wherein, in a foldable type terminal in which said second case is connected to said first case via a joining part in a freely openable and closable manner, said detection means detects an opened state

of said first and second cases, as the release of the state that said first and second cases overlap each other.

21. The portable telephone according to claim 19, wherein, in a rotary type terminal in which said second case is connected to said first case via a joining part so as to be rotated along a key operation face of said key operation unit, said detection means detects a state that said second case is rotated by a predetermined amount around the joining part relative to said first case, as the release of the state that said first and second cases overlap each other.

22. The portable telephone according to claim 19, wherein, in a slide storage type terminal in which said second case freely receives said first case by sliding said first case in a longitudinal direction, said detection means detects a state that said second case is slid by a predetermined amount relative to said first case, as the release of the state that said first and second cases overlap each other.

23. The portable telephone according to claim 18, wherein said means for invalidating key entries invalidates the key entries when setting information is preset to automatically inhibit the key entries in said key operation unit.

24. The portable telephone according to claim 18, wherein, when a previously set predetermined operation is performed before the

setting time elapses, said time counting means once clears the count of time and then restarts counting the setting time.

25. The portable telephone according to claim 18, further comprising:

5        means for setting the setting time in accordance with instruction information from outside.

26. The portable telephone according to claim 18, wherein, when the previously set predetermined operation is performed before the setting time elapses, said time counting means once clears  
10 the detection of elapse of the setting time and then restarts detecting elapse of the setting time.

27. The portable telephone according to claim 24, wherein, when the predetermined operation is performed through a side key, said time counting means once clears the detection of elapse of the  
15 setting time and then restarts detecting elapse of the setting time.

28. A foldable type portable telephone having a first case including a key operation unit, and a second case connected to said first case in a freely openable and closable manner, wherein  
20        when a preset setting time has elapsed since a detection of a specified state of said first and second cases while a terminal of the foldable type portable telephone is in a wait state for incoming and outgoing calls, key entries except at least an entry



of personal identification codes for unlocking are invalidated in said key operation unit.

29. A foldable type portable telephone having a first case including a key operation unit, and a second case connected to said first case in a freely openable and closable manner, comprising:

determination means for determining whether a terminal of the foldable type portable telephone is in a wait state for incoming and outgoing calls;

10 detection means for detecting an opened state and a closed state of said first and second cases;

time counting means for counting a preset setting time upon a detection by said detection means of a specified state of said first and second cases; and

15 means for, when said determination means determines to be in the wait state and then said time counting means detects that the setting time has elapsed, invalidating key entries except at least an entry of personal identification codes in said key operation unit.

20 30. The foldable type portable telephone according to claim 29, wherein said means for invalidate key entries invalidates the key entries when setting information is preset to automatically inhibit the key entries in said key operation unit.

31. The foldable type portable telephone according to claim 29, wherein, a previously set predetermined operation is performed

before the setting time elapses, said time counting means once clears the count of time and then restarts counting the setting time.

32. The foldable type portable telephone according to claim 29,  
5 further comprising:

means for setting the setting time in accordance with instruction information from outside.

33. The foldable type portable telephone according to claim 28,  
wherein, when the previously set predetermined operation is  
10 performed before the setting time elapses, said time counting means once clears the detection of elapse of the setting time and then restarts detecting elapse of the setting time.

34. The foldable type portable telephone according to claim 33,  
wherein, when the predetermined operation is performed through  
15 a side key, said time counting means once clears the detection of elapse of the setting time and then restarts detecting elapse of the setting time.

35. The foldable type portable telephone according to claim 28,  
wherein the specified state is at least either one of the opened  
20 state and the closed state of said first and second cases.

36. An auto dial lock method for a portable telephone having a first case including a key operation unit, and a second case connected to said first case, the method comprising:

a first step of determining whether a terminal of the portable telephone is in a wait state for incoming and outgoing calls;

a second step of detecting a state that said first and second cases overlap each other and a release of the state that said  
5 first and second cases overlap each other;

a third step of determining whether a preset setting time has elapsed since the detection of the state that said first and second cases overlap each other; and

a fourth step of, when determined to be in the wait state  
10 and then detected that the setting time has elapsed, invalidating key entries except at least an entry of personal identification codes in said key operation unit.

37. The auto dial lock method according to claim 36, wherein,  
in a foldable type terminal in which said second case is connected  
15 to said first case via a joining part in a freely openable and closable manner, said second step includes detecting an opened state of said first and second cases, as the release of the state that said first and second cases overlap each other.

38. The auto dial lock method according to claim 36, wherein,  
20 in a rotary type terminal in which said second case is connected to said first case via a joining part so as to be rotated along a key operation face of said key operation unit, said second step includes detecting a state that said second case is rotated by a predetermined amount around a joining part relative to said  
25 first case, as the release of the state that said first and second cases overlap each other.

39. The auto dial lock method according to claim 36, wherein,  
in a slide storage type terminal in which said second case freely  
receives said first case by sliding said first case in a  
longitudinal direction, said second step includes detecting a  
5 state that said second case is slid by a predetermined amount  
relative to said first case, as the release of the state that  
said first and second cases overlap each other.

40. The auto dial lock method according to claim 36, wherein  
said fourth step includes invalidating the key entries when  
10 setting information is preset to automatically inhibit the key  
entries in said key operation unit.

41. The auto dial lock method according to claim 36, wherein,  
when a previously set predetermined operation is performed before  
the setting time elapses, the detection of elapse of the setting  
15 time is once cleared and then restarted.

42. An auto dial lock method for a portable telephone having  
a first case including a key operation unit, and a second case  
connected to said first case, the method comprising:

a first step of determining whether a terminal of the portable  
20 telephone is in a wait state for incoming and outgoing calls;

a second step of detecting a specified state of said first  
and second cases;

a third step of determining whether a preset setting time  
has elapsed since the detection of the specified state; and

a fourth step of, when determined to be in the wait state and then detected that the setting time has elapsed, invalidating key entries except at least an entry of personal identification codes in said key operation unit.

- 5    43. The auto dial lock method according to claim 42, wherein said second step includes detecting either one of a state that said first and second cases overlap each other and a release of the state that said first and second cases overlap each other, as the specified state.
- 10   44. The auto dial lock method according to claim 42, in a foldable type terminal in which said second case is connected to said first case via a joining part in a freely openable and closable manner, the second step includes detecting an opened state of said first said second cases, as the release of the state that said first  
15   and second cases overlap each other.
- 20   45. The auto dial lock method according to claim 42, wherein, in a rotary type terminal in which said second case is connected to said first case via a joining part so as to be rotated along a key operation face of said key operation unit, said second step  
includes detecting a state that said second case is rotated by a predetermined amount around a joining part relative to said first case, as the release of the state that said first and second cases overlap each other.

46. The auto dial lock method according to claim 42, wherein,  
in a slide storage type terminal in which said second case freely  
receives said first case by sliding said first case in a  
longitudinal direction, said second step includes detecting a  
5 state that said second case is slid by a predetermined amount  
relative to said first case, as the release of the state that  
said first and second cases overlap each other.

47. The auto dial lock method according to claim 42, wherein  
said fourth step includes invalidating the key entries when  
10 setting information is preset to automatically inhibit the key  
entries in said key operation unit.

48. The auto dial lock method according to claim 42, wherein,  
when a previously set predetermined operation is performed before  
the setting time elapses, the detection of elapse of the setting  
15 time is once cleared and then restarted.

49. The auto dial lock method according to claim 48, wherein,  
when the predetermined operation is performed through a side key,  
the detection of elapse of the setting time is once cleared and  
then restarted.

20 50. An auto dial lock method for a foldable type portable telephone  
having a first case including a key operation unit, and a second  
case connected to said first case in a freely openable and closable  
manner, the method comprising:

a step of determining whether a terminal of the foldable type portable telephone is in a wait state for incoming and outgoing calls;

5 a step of detecting an opened state and a closed state of said first and second cases;

a step of determining whether a preset setting time has elapsed since the detection of the closed state of said first and second cases; and

10 a step of, when determined to be in the wait state and then detected that the setting time has elapsed, invalidating key entries except at least an entry of personal identification codes in said key operation unit.

51. The auto dial lock method according to claim 50, wherein said step of invalidating key entries includes invalidating the  
15 key entries when setting information is preset to automatically inhibit said key entries in said key operation unit.

52. The auto dial lock method according to claim 50, wherein, when a previously set predetermined operation is performed before the setting time elapses, the detection of elapse of the setting  
20 time is once cleared and then restarted.

53. An auto dial lock method for a foldable type portable telephone having a first case including a key operation unit, and a second case connected to said first case in a freely openable and closable manner, the method comprising:

a step of determining whether a terminal of the foldable type portable telephone is in a wait state for incoming and outgoing calls;

5 a step of detecting a specified state of said first and second cases;

a step of determining whether a preset setting time has elapsed since the detection of the specified state; and

10 a step of, when determined to be in the wait state and then detected that the setting time has elapsed, invalidating key entries except at least an entry of personal identification codes in said key operation unit.

54. The auto dial lock method according to claim 53, wherein said step of invalidating key entries includes invalidating the key entries when setting information is preset to automatically  
15 inhibit the key entries in said key operation unit.

55. The auto dial lock method according to claim 53, wherein, when a previously set predetermined operation is performed before the setting time elapses, the detection of elapse of the setting time is once cleared and then restarted.

20 56. The auto dial lock method according to claim 55, wherein, when the predetermined operation is performed through a side key, the detection of elapse of the setting time is once cleared and then restarted.



57. The auto dial lock method according to claim 53, wherein the specified state is at least either one of the opened state and the closed state of said first and second cases.

58. A program of an auto dial lock method for a portable telephone  
5 having a first case including a key operation unit, and a second case connected to said first case, wherein the program makes a computer execute the steps of:

determining whether a terminal of the portable telephone is in a wait state for incoming and outgoing calls;

10 detecting a state that said first and second cases overlap each other and a release of the state that said first and second cases overlap each other;

determining whether a preset setting time has elapsed since the detection of the state that said first and second cases overlap  
15 each other; and

when determined to be in the wait state and then detected that the setting time has elapsed, invalidating key entries except at least an entry of personal identification codes in the key operation unit.

20 59. A program of an auto dial lock method for a foldable type portable telephone having a first case including a key operation unit, and a second case connected to said first case, wherein the program makes a computer execute the steps of:

determining whether a terminal of the portable telephone  
25 is in a wait state for incoming and outgoing calls;

detecting a specified state of said first and second cases;

determining whether a preset setting time has elapsed since the detection of the specified state; and

when determined to be in the wait state and then detected that the setting time has elapsed, invalidating key entries except  
5 at least an entry of personal identification codes in said key operation unit.

60. A program of an auto dial lock method for a foldable type portable telephone having a first case including a key operation unit, and a second case connected to said first case in a freely  
10 openable and closable manner, wherein the program makes a computer execute the steps of:

determining whether a terminal of the foldable type portable telephone is in a wait state for incoming and outgoing calls;

detecting an opened state and a closed state of said first  
15 and second cases;

determining whether a preset setting time has elapsed since the detection of the closed state of said first and second cases; and

when determined to be in the wait state and then detected  
20 that the setting time has elapsed, invalidating key entries except at least an entry of personal identification codes in the key operation unit.

61. A program of an auto dial lock method for a foldable type portable telephone having a first case including a key operation  
25 unit, and a second case connected to said first case in a freely

openable and closable manner, wherein the program makes a computer execute the steps of:

determining whether a terminal of the foldable type portable telephone is in a wait state for incoming and outgoing calls;

5 detecting a specified state of said first and second cases;

determining whether a preset setting time has elapsed since the detection of the specified state of said first and second cases; and

10 when determined to be in the wait state and then detected that the setting time has elapsed, invalidating key entries except at least an entry of personal identification codes in said key operation unit.